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MAY 23 1991
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To: Dr. R. A. Fenner

Date: May 21, 1991

From: P. F. Grantham

P.F. Grantham

Subject: Competitor Blend and Cigarette Paper Update

Competitor brands from April production (and March production not previously received) have been analyzed to determine if any major changes in expanded tobacco (ET), expanded stem (ES), and reconstituted tobacco (Recon) levels have taken place. All R. J. Reynolds brands that were available were analyzed, as well as selected brands from American, Liggett, and Lorillard. No changes were detected in the American, Liggett or Lorillard brands. A lower ET level was noted for Vantage KS. Salem 100 shows a slight decrease. Doral FF Menthol KS, Camel Lights 100, and Winston Lights 100 showed decreased ET levels for a second production month. No significant changes in ES or Recon levels were detected for any of the manufacturers. The ET levels for major RJR brands from January, February, March and April production are compiled in Table I.

The presence of Freon® in competitor's expanded tobacco was last confirmed in late 1990. Quantitative analysis of Freon® has now been completed on at least one brand from each competitor for the most recent production available. R. J. Reynolds, American, Liggett, and Lorillard continue to have detectable levels of Freon® present in their blends. Brown & Williamson shows no detectable Freon®. Results from these analyses are shown in Table II.

We have also continued to monitor fiber changes in competitor cigarette papers. Lorillard and American continue to use only flax paper. Brown & Williamson uses flax paper on all brands except for the recently introduced (4th quarter, 1990) Raleigh Extra and Raleigh Extra Lights which use wood pulp. The following brands have changed from 100% flax to 100% wood pulp paper. (Samples from March and April production.)

R. J. Reynolds

Liggett

Camel Lights KS
Salem Slim Lights 100
Vantage KS

Chesterfield KS, 100
L & M KS, 100

With the change to wood pulp on Chesterfield and L&M, Liggett now uses wood pulp paper on all brands except for Lark.

We will continue to monitor all blend and paper changes on a monthly basis.

cc: M. Bourlas	K. Houghton
J. Charles	W. Kuhn
C. Ellis	K. Mitchell
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	Central Files

Attachment

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Table I. RJR % Expanded Tobacco - 1991

	January	February	March	April
Salem Ultra Lights KS	27	26	24	24
Doral FF KS	21	22	23	22
*Doral FF Menthol KS	21	22	16	15
Doral FF 100	22	**	20	22
*Doral FF Menthol 100	23	22	15	**
Doral Lights KS	22	21	22	**
Doral Lights 100	21	19	21	23
Doral Ultra Lights KS	23	23	20	**
Doral Ultra Lights 100	20	23	22	20
Vantage Ultra Lights KS	21	**	**	**
Vantage Ultra Lights 100	21	**	21	**
Camel Ultra Lights KS	16	17	**	**
Camel Ultra Lights KS (Box)	15	**	**	**
Camel Ultra Lights 100 (Box)	16	**	15	**
*Vantage KS	**	17	17	12
Vantage 100	12	12	12	12
Winston Ultra KS	16	15	16	**
Winston Ultra 100	11	16	15	19
Doral Lights Menthol KS	16	15	14	**
Doral Lights Menthol 100	16	15	14	14
Salem Slim Lights 100	17	17	17	19
Salem Lights 100	15	16	15	15
Salem Lights 100 (Box)	15	15	16	**
More Lights 100	15	14	13	**
More Lights Menthol 100	13	**	12	13
Camel NF	10	12	11	12
Camel KS	13	15	13	13
Camel KS (Box)	12	12	11	11
Camel Lights KS (Box)	13	**	12	12
Camel Lights KS	13	13	13	**
*Camel Lights 100	12	7	**	8
Magna Lites KS	12	12	11	**
Magna Lites KS (Box)	10	**	**	**
More 120	**	13	13	14
More Menthol 120	13	12	11	12
More White Lights 120	13	**	12	**
More White Lights Menthol 120	**	13	13	13
Salem KS	11	13	13	12
*Salem 100	12	11	12	9
Salem Lights KS	13	12	12	12
Salem Lights 100 (Box)	15	15	16	**
Salem Ultra Lights 100	11	13	12	**
Vantage Menthol KS	**	13	11	13
Vantage Menthol 100	13	12	11	**
Winston KS (Box)	11	11	11	11
Winston 100	12	12	12	11
*Winston Lights KS (Box)	12	12	6	6
Winston Lights KS	11	12	12	12
Winston Lights 100	10	7	7	7
*Winston Lights 100 (Box)	**	**	7	**
Winston KS	6	7	**	6
Now KS	51	**	52	**
Now Menthol KS	52	52	52	52
Now 100	53	54	55	53
Now Menthol 100	55	54	53	54

*Change Detected

** Sample not available for this month.

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Table II

Freon® Concentrations

<u>Manufacturer</u>	<u>Prod. Month</u>	<u>Brand</u>	<u>*Freon (µg/g)</u>	<u>% ET</u>
RJR	March	Now KS	23	52
	Feb.	Winston KS (SP)	7	7
	April	Winston KS (SP)	4	7
	Feb.	Winston KS (Box)	2	11
American	Jan.	Carlton 100	18	46
B&W	Feb.	Belair 85	ND	8
Liggett	Aug. (90)	L & M 100	1	23
Lorillard	March	Kent III 100	1	18

ND = Not detected

*Value is average for 2 packs, 1 analysis/pack.

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